

Index to Authors

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In abstracts of patents only the names of firms have been given and the abstracts have been indexed under these names. Where two firms have jointly taken out a patent, or where a paper has two or more authors, all the names have been included in the index. Names beginning with de, la, le, ter, van, von, etc. are indexed under the surname.

Abbreviations of Names of Firms, etc.

The abbreviations listed below have been used in the *Journal*.

| | | | |
|-----------------|--|---------------|--|
| AAP | Koppers Co. Inc. | HSH | Harshaw Chemical Co. |
| AATCC | American Association of Textile Chemists and Colorists | HWL | Hickson & Welch Ltd |
| Acna | Aziende Colori Nazionali Affini | IBA | Fabrica Inbra, Industria Brasileira de Anilinas S.A. |
| BASF | Badische Anilin- & Soda-Fabrik A.G. | IC | Interchemical Corp |
| CCC | American Cyanamid Co. | ICI | Imperial Chemical Industries Ltd |
| CFM | Cassella Farbwerke Mainkur A.G. | KVK | Kemisk Vaerk Koge A/S |
| CIBA | CIBA Ltd | LT | Laporte Titanium Ltd |
| Col. | Columbian Carbon Co. | MCI | Mitsubishi Chemical Industries Ltd |
| DuP | E.I. du Pont de Nemours & Co. Inc. | MDW | Mitsui Chemical Industry Co. Ltd |
| FBy | Farbenfabriken Bayer A.G. | MMM | Minnesota Mining & Manufacturing Corp |
| FH | Farbwerke Hoechst A.G. | Montecatini | Montecatini Società Generale per l'Industria Mineraria e Chimica |
| Fran | Française des Matières Colorantes S.A. | NL | National Lead Co. |
| FW | VEB Farbenfabrik Wolfen | Rhône Poulenç | Société des Usines Chimiques Rhône-Poulenç |
| General Aniline | General Aniline & Film Corp | S | Sandoz A.G. |
| Gevaert | Gevaert Photo-Producten N.V. | YDC | Sandoz Products Ltd |
| Gy | Geigy, J. R., A.G. The Geigy Co. Ltd | | Yorkshire Dyeware & Chemical Co. Ltd |
| HH | Hardman & Holden Ltd | | |

Symbols used in Index

The following symbols have been added, where appropriate, after the names of authors.

| | | | |
|------|--|----|-------------------------|
| C | Communication | O | Obituary Notice |
| Corr | Correspondence | P | Proceedings |
| EA | External Address | PC | Pattern Cards |
| EPMT | Explanatory Paper on Modern Theory | R | Book Review |
| N | Note | Sy | Symposium Paper |

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| 732 | 75 | 963 | 69 | 294 | 132 | 887 | 169 | 813 | 182 | 325 | 272 | 988,026 | 341 | 364 | 388 |
| 786 | 74 | 077 | 68 | 300 | 239 | 888 | 190 | 905 | 176 | 417 | 287 | 419 | 378 | 804 | 414 |
| | | 305 | 140 | 888 | 190 | 905 | 176 | 451 | 341 | 108 | 383 | 464 | 369 | 805 | 414 |
| 821 | 31 | 319 | 139 | 904 | 184 | 913 | 183 | 484 | 278 | 217 | 387 | 499 | 369 | 952 | 417 |
| 834 | 30 | 320 | 139 | 971 | 180 | 936 | 276 | 221 | 384 | 221 | 384 | 503 | 377 | 953 | 417 |
| 851 | 30 | 358 | 229 | 974 | 187 | 938 | 169 | 515 | 281 | 234 | 329 | 528 | 382 | 954 | 417 |
| 884 | 77 | 981 | 84 | 291 | 140 | 865 | 179 | 939 | 271 | 516 | 272 | 292 | 380 | 955 | 417 |
| 885 | 76 | 111 | 84 | 875 | 188 | 875 | 188 | 980 | 187 | 953 | 180 | 988,026 | 341 | 364 | 388 |
| 889 | 26 | 194 | 89 | 416 | 141 | 996 | 179 | 983,045 | 180 | 605 | 280 | 627 | 372 | 981 | 372 |
| 890 | 75 | 195 | 89 | 544 | 173 | 983,045 | 180 | 606 | 279 | 305 | 336 | 627 | 372 | 981 | 372 |
| 891 | 29 | 211 | 68 | 981,002 | 178 | 606 | 279 | 612 | 284 | 628 | 384 | 644 | 382 | 993,009 | 419 |
| | | 621 | 279 | 981,002 | 178 | 606 | 279 | 620 | 279 | 370 | 329 | 660 | 380 | 055 | 414 |
| 906 | 84 | 218 | 127 | 605 | 240 | 981,002 | 178 | 121 | 231 | 441 | 383 | 517 | 333 | 995 | 372 |
| 910 | 79 | 239 | 127 | 624 | 138 | 981,002 | 178 | 121 | 231 | 453 | 387 | 749 | 367 | 991,026 | 377 |
| 915 | 73 | 646 | 223 | 981,002 | 178 | 981,002 | 178 | 746 | 277 | 485 | 328 | 627 | 375 | 150 | 420 |
| 926 | 79 | 322 | 79 | 670 | 133 | 981,002 | 178 | 981,002 | 178 | 746 | 277 | 629 | 333 | 162 | 372 |
| 928 | 74 | 349 | 87 | 704 | 122 | 981,002 | 178 | 981,002 | 178 | 981,002 | 178 | 615 | 336 | 974 | 377 |
| 930 | 76 | 350 | 87 | 721 | 173 | 981,002 | 178 | 981,002 | 178 | 981,002 | 178 | 620 | 390 | 978 | 384 |
| | | 399 | 84 | 731 | 130 | 981,002 | 178 | 981,002 | 178 | 981,002 | 178 | 621 | 368 | 986 | 382 |
| 974,036 | 78 | 523 | 74 | 856 | 143 | 115 | 187 | 362 | 224 | 933 | 384 | 517 | 333 | 944 | 378 |
| 067 | 36 | 528 | 140 | 191 | 177 | 362 | 224 | 937 | 282 | 485 | 328 | 512 | 386 | 944 | 378 |
| 073 | 32 | 529 | 84 | 983 | 137 | 193 | 229 | 404 | 168 | 949 | 328 | 615 | 336 | 952 | 408 |
| 079 | 32 | 990 | 137 | 195 | 183 | 662 | 375 | 982 | 229 | 620 | 390 | 986 | 382 | 952 | 408 |
| 107 | 77 | 547 | 69 | 983 | 137 | 195 | 183 | 662 | 375 | 381 | 232 | 511 | 386 | 974 | 377 |
| 108 | 83 | 547 | 69 | 990 | 137 | 195 | 183 | 662 | 375 | 381 | 232 | 512 | 386 | 974 | 377 |
| 127 | 83 | 548 | 88 | 198 | 184 | 434 | 180 | 114 | 284 | 381 | 232 | 513 | 386 | 978 | 384 |
| 136 | 74 | 553 | 79 | 979,006 | 137 | 198 | 184 | 116 | 275 | 381 | 232 | 514 | 386 | 986 | 382 |
| 159 | 33 | 556 | 84 | 045 | 130 | 517 | 279 | 116 | 285 | 381 | 232 | 515 | 386 | 986 | 382 |
| 160 | 33 | 556 | 84 | 085 | 140 | 201 | 173 | 517 | 279 | 890 | 287 | 516 | 386 | 986 | 382 |
| | | 574 | 69 | 202 | 169 | 580 | 184 | 236 | 185 | 582 | 179 | 230 | 287 | 829 | 374 |
| 325 | 25 | 596 | 67 | 107 | 134 | 250 | 179 | 582 | 179 | 230 | 287 | 829 | 374 | 148</td | |

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| 993,908 | 373 | 995,306 | 410 | 996,243 | 453 | 997,476 | 454 | 998,550 | 517 | 999,555 | 516 | 1,000,385 | 511 | 1,001,199 | 500 |
| 923 | 419 | 360 | 445 | 244 | 413 | 491 | 453 | 591 | 511 | 388 | 503 | 219 | 517 | 1,002,377 | 511 |
| 944 | 414 | 365 | 410 | 246 | 452 | 499 | 412 | 659 | 501 | 398 | 496 | 404 | 502 | 224 | 494 |
| 994,058 | 463 | 390 | 408 | 275 | 467 | 500 | 453 | 677 | 457 | 601 | 509 | 407 | 512 | 263 | 495 |
| 094 | 466 | | | 290 | 408 | 513 | 459 | 703 | 459 | 646 | 511 | 408 | 506 | 426 | 507 |
| 197 | 459 | 433 | 463 | 388 | 465 | 639 | 453 | 705 | 453 | 721 | 509 | 434 | 516 | 318 | 508 |
| 216 | 413 | 490 | 459 | 389 | 464 | 640 | 446 | 773 | 517 | 722 | 509 | 453 | 508 | 437 | 510 |
| 302 | 465 | 576 | 468 | 402 | 445 | 651 | 412 | 775 | 496 | 723 | 509 | 473 | 516 | 439 | 516 |
| 346 | 446 | 637 | 455 | 501 | 451 | 732 | 444 | 870 | 499 | 724 | 509 | 508 | 515 | 439 | 499 |
| 347 | 455 | | | 511 | 455 | 762 | 466 | 894 | 503 | 725 | 509 | 521 | 504 | 493 | 502 |
| 348 | 455 | 730 | 460 | 594 | 461 | 821 | 464 | 897 | 494 | 727 | 509 | 527 | 505 | 496 | 500 |
| 349 | 455 | 764 | 455 | | | 828 | 464 | 728 | 509 | 729 | 509 | 531 | 506 | 497 | 504 |
| 388 | 411 | 791 | 451 | 653 | 408 | 880 | 444 | 792 | 504 | 776 | 513 | 499 | 500 | 858 | 513 |
| 482 | 414 | 792 | 451 | 922 | 446 | 901 | 467 | 662 | 515 | 699 | 494 | 706 | 499 | 876 | 504 |
| 497 | 459 | 793 | 451 | 743 | 412 | 917 | 511 | 803 | 506 | 717 | 500 | 904 | 516 | | |
| 502 | 452 | 795 | 451 | 997,008 | 465 | 919 | 504 | 808 | 499 | 762 | 506 | 741 | 500 | 905 | 516 |
| | | 796 | 451 | 017 | 411 | 998,014 | 461 | 922 | 506 | 852 | 515 | 790 | 503 | 906 | 512 |
| 669 | 455 | 811 | 445 | 041 | 452 | 946 | 511 | 877 | 502 | 801 | 502 | 816 | 496 | 1,003,115 | 504 |
| | | 812 | 408 | 042 | 451 | 947 | 511 | 878 | 511 | 805 | 515 | 836 | 502 | | |
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| 951 | 408 | 859 | 455 | 094 | 455 | 156 | 506 | 996 | 502 | 866 | 505 | 881 | 517 | | |
| 961 | 458 | 870 | 450 | 170 | 461 | 225 | 495 | 999,028 | 511 | 887 | 504 | 882 | 506 | 546 | 506 |
| 976 | 454 | 875 | 453 | 173 | 454 | 236 | 509 | 049 | 495 | 888 | 517 | 556 | 514 | | |
| 979 | 411 | 182 | 408 | 185 | 445 | 255 | 505 | 050 | 509 | 894 | 515 | 947 | 513 | | |
| 990 | 460 | 938 | 412 | 299 | 518 | 061 | 507 | 054 | 511 | 995 | 508 | 600 | 504 | | |
| 991 | 446 | 948 | 459 | 202 | 455 | 122 | 496 | 921 | 494 | 997 | 517 | 671 | 512 | | |
| | | 954 | 454 | 212 | 445 | 127 | 504 | 967 | 494 | 997 | 517 | 672 | 512 | | |
| 995,034 | 412 | 996,033 | 455 | 268 | 446 | 326 | 494 | 101 | 508 | 986 | 512 | 1,002,022 | 498 | 673 | 512 |
| 040 | 411 | 034 | 455 | | | 358 | 501 | 140 | 509 | 195 | 512 | 987 | 512 | 674 | 512 |
| 118 | 446 | 068 | 453 | 323 | 461 | 385 | 515 | 149 | 507 | 196 | 513 | 1,001,004 | 504 | 675 | 512 |
| 183 | 408 | 075 | 451 | 361 | 461 | 153 | 509 | 197 | 513 | 206 | 505 | 103 | 496 | 676 | 512 |
| 192 | 455 | | | 362 | 461 | 404 | 515 | 227 | 506 | 063 | 500 | 104 | 496 | 677 | 512 |
| 225 | 408 | 109 | 457 | 386 | 445 | 521 | 517 | 365 | 494 | 066 | 501 | 232 | 501 | 678 | 512 |
| 253 | 411 | 208 | 464 | 398 | c457 | 522 | 501 | 380 | 494 | 067 | 503 | 679 | 500 | | |
| 260 | 446 | 240 | 454 | 447 | 445 | 529 | 518 | 409 | 514 | 181 | 505 | 326 | 496 | 794 | 515 |
| 261 | 452 | 242 | 452 | 450 | 445 | 530 | 519 | 480 | 519 | 383 | 515 | 330 | 511 | | |
| | | | | | | | | 182 | 505 | 345 | 502 | 1,004,076 | 505 | | |

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| 3,046,771 | 25 | 3,112,155 | 69 | 3,119,808 | 131 | 3,126,555 | 181 | 3,135,578 | 238 | 3,143,961 | 271 | 3,151,993 | 378 | 3,160,608 | 409 | 3,169,864 | 502 | | |
| | | 156 | 87 | 810 | 128 | 835 | 132 | 608 | 188 | 579 | 238 | 999 | 336 | 635 | 413 | 868 | 460 | | |
| 3,047,386 | 29 | 157 | 69 | 452 | 37 | 3,120,050 | 121 | 3,127,231 | 182 | 604 | 275 | 3,144,297 | 282 | 3,152,000 | 337 | 759 | 424 | 885 | 464 |
| | | 198 | 73 | | | 200 | 85 | 422 | 136 | 232 | 178 | 298 | 288 | 299 | 287 | 98 | 424 | 954 | 501 |
| 3,057,610 | 25 | 214 | 88 | 423 | 137 | 427 | 133 | 245 | 178 | 606 | 231 | 351 | 286 | 108 | 335 | 109 | 335 | 506 | 461 |
| | | 423 | 137 | 279 | 179 | 448 | 134 | 280 | 178 | 695 | 233 | 773 | 292 | 110 | 336 | 519 | 465 | 315 | 495 |
| 3,058,332 | 25 | 303 | 74 | 448 | 134 | 452 | 140 | 734 | 275 | 734 | 275 | 773 | 292 | 111 | 334 | 583 | 446 | 393 | 456 |
| 3,059,460 | 25 | 633 | 67 | 305 | 187 | 3,145,073 | 287 | 3,136,638 | 237 | 644 | 239 | 074 | 287 | 860 | 336 | 608 | 457 | 757 | 460 |
| 3,066,046 | 25 | 982 | 83 | 688 | 122 | 391 | 173 | 3,128,145 | 187 | 646 | 272 | 132 | 287 | 905 | 334 | 622 | 457 | 792 | 460 |
| 047 | 25 | 983 | 84 | 999 | 133 | 047 | 85 | 147 | 187 | 647 | 232 | 186 | 282 | 916 | 415 | 632 | 452 | 815 | 495 |
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| 515 | 26 | 025 | 85 | 017 | 134 | 179 | 175 | 3,137,588 | 288 | 398 | 271 | 919 | 387 | 3,163,406 | 445 | 909 | 499 | 791 | 460 |
| 3,075,841 | 35 | 122 | 82 | 632 | 137 | 206 | 168 | 609 | 290 | 655 | 278 | 555 | 271 | 920 | 386 | 604 | 446 | 910 | 499 |
| 3,076,430 | 25 | 642 | 143 | 642 | 143 | 222 | 184 | 655 | 278 | 668 | 287 | 970 | 383 | 642 | 454 | 912 | 501 | 914 | 501 |
| 721 | 34 | 827 | 84 | 711 | 131 | 249 | 168 | 685 | 276 | 3,146,080 | 280 | 996 | 390 | 3,163,406 | 445 | 931 | 505 | 792 | 460 |
| 724 | 25 | 829 | 90 | 712 | 128 | 528 | 187 | 703 | 279 | 703 | 279 | 102 | 285 | 3,153,003 | 386 | 492 | 457 | 3,171,805 | 495 |
| 3,077,399 | 35 | 884 | 68 | 633 | 137 | 221 | 180 | 609 | 290 | 655 | 278 | 119 | 280 | 563 | 419 | 502 | 445 | 3,172,726 | 506 |
| 400 | 35 | 928 | 82 | 3,122,411 | 140 | 054 | 238 | 3,138,431 | 287 | 459 | 285 | 499 | 271 | 591 | 420 | 634 | 500 | 727 | 506 |
| 402 | 35 | 418 | 133 | 419 | 121 | 101 | 237 | 481 | 287 | 477 | 281 | 511 | 271 | 592 | 384 | 763 | 512 | 777 | 515 |
| 3,103,418 | 80 | 3,114,189 | 68 | 438 | 137 | 103 | 237 | 104 | 233 | 567 | 285 | 3,147,064 | 329 | 836 | 367 | 449 | 454 | 779 | 467 |
| 191 | 87 | 485 | 178 | 192 | 82 | 109 | 237 | 109 | 237 | 568 | 337 | 3,153,003 | 386 | 492 | 457 | 3,171,805 | 495 | 786 | 512 |
| 3,107,036 | 68 | 254 | 89 | 502 | 169 | 110 | 233 | 134 | 232 | 802 | 286 | 159 | 288 | 563 | 419 | 555 | 445 | 3,172,726 | 506 |
| 3,108,847 | 37 | 588 | 84 | 529 | 128 | 110 | 233 | 106 | 233 | 802 | 286 | 459 | 285 | 564 | 377 | 591 | 420 | 729 | 506 |
| 885 | 25 | 588 | 84 | 531 | 132 | 106 | 233 | 106 | 233 | 802 | 286 | 477 | 281 | 591 | 420 | 634 | 500 | 763 | 512 |
| 889 | 26 | 606 | 69 | 3,123,001 | 238 | 661 | 237 | 3,139,321 | 284 | 322 | 286 | 130 | 337 | 427 | 379 | 567 | 457 | 883 | 502 |
| 890 | 26 | 660 | 85 | 432 | 183 | 342 | 187 | 3,130,050 | 237 | 346 | 339 | 131 | 337 | 431 | 369 | 570 | 457 | 924 | 494 |
| 891 | 26 | 726 | 128 | 449 | 168 | 061 | 233 | 373 | 288 | 287 | 335 | 295 | 329 | 502 | 378 | 375 | 464 | 3,165,374 | 495 |
| 896 | 34 | 726 | 128 | 473 | 184 | 061 | 233 | 401 | 271 | 295 | 329 | 502 | 378 | 510 | 415 | 484 | 461 | 3,173,189 | 516 |
| 899 | 38 | 957 | 68 | 488 | 179 | 063 | 239 | 401 | 271 | 295 | 329 | 510 | 415 | 512 | 369 | 407 | 461 | 747 | 508 |
| 3,109,643 | 25 | 3,115,383 | 87 | 489 | 178 | 065 | 239 | 3,140,028 | 271 | 348 | 339 | 512 | 369 | 423 | 464 | 484 | 455 | 861 | 510 |
| 695 | 36 | 386 | 90 | 490 | 178 | 069 | 224 | 3,140,028 | 271 | 348 | 339 | 513 | 374 | 429 | 455 | 484 | 455 | 862 | 498 |
| 708 | 30 | 508 | 188 | 118 | 239 | 146 | 282 | 3,148,017 | 338 | 513 | 374 | 502 | 378 | 429 | 455 | 484 | 455 | 877 | 495 |
| 736 | 29 | 438 | 89 | 516 | 185 | 175 | 285 | 3,156,519 | 419 | 514 | 374 | 502 | 378 | 429 | 455 | 484 | 455 | 882 | 502 |
| 737 | 34 | 472 | 69 | 565 | 169 | 182 | 278 | 3,156,519 | 419 | 515 | 374 | 502 | 378 | 429 | 455 | 484 | 455 | 883 | 502 |
| 746 | 34 | 596 | 174 | 596 | 174 | 194 | 284 | 3,166,422 | 461 | 516 | 374 | 502 | 378 | 429 | 455 | 484 | 455 | 887 | 495 |
| 748 | 34 | 3,116,114 | 67 | 605 | 176 | 085 | 237 | 195 | 281 | 3,148,017 | 338 | 517 | 374 | 502 | 378 | 429 | 455 | 484 | 455 |
| 750 | 36 | 119 | 67 | 640 | 169 | 086 | 240 | 227 | 287 | 3,156,519 | 419 | 518 | 374 | 502 | 378 | 429 | 455 | 484 | 455 |
| 776 | 36 | 641 | 169 | 641 | 169 | 092 | 223 | 265 | 282 | 3,166,422 | 461 | 519 | 374 | 502 | 378 | 429 | 455 | 484 | 455 |
| 778 | 36 | 200 | 89 | 412 | 183 | 105 | 239 | 292 | 279 | 3,166,422 | 461 | 520 | 374 | 502 | 378 | 429 | 455 | 484 | 455 |
| 798 | 36 | 256 | 80 | 3,124,411 | 183 | 840 | 223 | 308 | 336 | 3,166,422 | 461 | 521 | 374 | 502 | 378 | 429 | 455 | 484 | 455 |
| 841 | 29 | 279 | 78 | 413 | 180 | 308 | 336 | 3,166,422 | 461 | 522 | 374 | 502 | 378 | 429 | 455 | 484 | 455 | 806 | 502 |
| 3,110,169 | 25 | 293 | 79 | 429 | 168 | 3,132,042 | 239 | 914 | 284 | 3,148,017 | 338 | 523 | 374 | 502 | 378 | 429 | 455 | 484 | 455 |
| 542 | 36 | 967 | 122 | 480 | 168 | 948 | 285 | 914 | 284 | 3,148,017 | 338 | 524 | 374 | 502 | 378 | 429 | 455 | 484 | 455 |
| 543 | 36 | 3,117,052 | 85 | 481 | 168 | 106 | 232 | 949 | 285 | 3,148,017 | 338 | 525 | 374 | 502 | 378 | 429 | 455 | 484 | 455 |
| 544 | 32 | 504 | 168 | 133 | 229 | 942 | 231 | 950 | 285 | 3,148,017 | 338 | 526 | 374 | 502 | 378 | 429 | 455 | 484 | 455 |
| 551 | 38 | 116 | 174 | 535 | 234 | 140 | 278 | 951 | 278 | 3,148,017 | 338 | 527 | 374 | 502 | 378 | 429 | 455 | 484 | 455 |
| 591 | 29 | 740 | 67 | 536 | 234 | 503 | 184 | 3,141,738 | 280 | 915 | 284 | 3,148,017 | 338 | 528 | 374 | 502 | 378 | 429 | 455 |
| 592 | 35 | 537 | 181 | 582 | 176 | 106 | 232 | 948 | 285 | 3,141,738 | 280 | 915 | 284 | 3,148,017 | 338 | 529 | 374 | 502 | 378 |
| 606 | 30 | 831 | 84 | 582 | 176 | 918 | 236 | 788 | 280 | 915 | 284 | 3,148,017 | 338 | 530 | 374 | 502 | 378 | 429 | 455 |
| 608 | 68 | 883 | 80 | 601 | 231 | 926 | 232 | 181 | 333 | 915 | 284 | 3,148,017 | 338 | 531 | 374 | 502 | 378 | 429 | 455 |
| 612 | 37 | 886 | 92 | 886 | 92 | 942 | 231 | 810 | 287 | 915 | 284 | 3,148,017 | 338 | 532 | 374 | 502 | 378 | 429 | 455 |
| 615 | 39 | 888 | 68 | 860 | 187 | 917 | 233 | 949 | 337 | 915 | 284 | 3,148,017 | 338 | 533 | 374 | 502 | 378 | 429 | 455 |
| 616 | 33 | 957 | 128 | 955 | 191 | 071 | 232 | 949 | 337 | 915 | 284 | 3,148,017 | 338 | 534 | 374 | 502 | 378 | 429 | 455 |
| 618 | 38 | 958 | 128 | 958 | 128 | 080 | 232 | 950 | 337 | 915 | 284 | 3,148,017 | 338 | 535 | 374 | 502 | 378 | 429 | 455 |
| 691 | 31 | 974 | 79 | 3,125,404 | 188 | 817 | 230 | 529 | 284 | 915 | 284 | 3,148,017 | 338 | 536 | 374 | 502 | 378 | 429 | 455 |
| 3,111,251 | 68 | 405 | 286 | 424 | 168 | 893 | 232 | 565 | 332 | 915 | 284 | 3,148,017 | 338 | 537 | 374 | 502 | 378 | 429 | 455 |
| 357 | 84 | 3,118,060 | 87 | 406 | 286 | 893 | 232 | 580 | 288 | 915 | 284 | 3,148,017 | 338 | 538 | 374 | 502 | 378 | 429 | 455 |
| 358 | 69 | 212 | 122 | 447 | 176 | 448 | 176 | 581 | 289 | 915 | 284 | 3,148,017 | 338 | 539 | 374 | 502 | 378 | 429 | 455 |
| 359 | 88 | 871 | 127 | 563 | 174 | 451 | 178 | 672 | 275 | 581 | 289 | 915 | 284 | 540 | 374 | 502 | 378 | 429 | 455 |
| 360 | 88 | 723 | 137 | 455 | 178 | 455 | 188 | 675 | 227 | 592 | 281 | 3,150,110 | 337 | 541 | 374 | 502 | 378 | 429 | 455 |
| 361 | 88 | 725 | 140 | 455 | 178 | 455 | 188 | 675 | 227 | 592 | 281 | 3,150,110 | 337 | 542 | 374 | 502 | 378 | 429 | 455 |
| 362 | 88 | 732 | 133 | 458 | 179 | 686 | 238 | 611 | 282 | 592 | 281 | 3,150,110 | 337 | 543 | 374 | 502 | 378 | 429 | 455 |
| 413 | 81 | 780 | 133 | 462 | 287 | 688 | 240 | 615 | 329 | 592 | 281 | 3,150,110 | 337 | 544 | 374 | 502 | 378 | 429 | 455 |
| 417 | 70 | 844 | 143 | 487 | 169 | 714 | 238 | 616 | 329 | 592 | 281 | 3,150,110 | 337 | 545 | 374 | 502 | 378 | 429 | 455 |
| 423 | 85 | 848 | 134 | 487 | 169 | 714 | 238 | 669 | 332 | 592 | 281 | 3,150,110 | 337 | 546 | 374 | 502 | 378 | 429 | 455 |
| 424 | 90 | 871 | 127 | 563 | 174 | 763 | 275 | 918 | 380 | 592 | 281 | 3,150,110 | 337 | 547 | 3 | | | | |

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| <i>Ind. Eng. Chem.</i> ... | <i>Industrial and Engineering Chemistry</i> ... | American Chemical Society, 1155 16th Street, N.W., Washington D.C., 20036, U.S.A. |
| <i>Indian Textile J.</i> ... | <i>Indian Textile Journal</i> ... | The Indian Textile Journal Pte. Ltd, "Surya Mahal", Military Square, Fort, Bombay 1, India. |
| <i>Izvestiya Akad. Nauk S.S.R., ser. khim.</i> ... | <i>Izvestiya Akademii Nauk S.S.R.</i> ... | Academy of Sciences of the U.S.S.R., Moscow, Leninskii prospekt 47, U.S.S.R. |
| <i>J. Amer. Chem. Soc.</i> ... | <i>Journal of the American Chemical Society</i> ... | 1155 16th Street, N.W., Washington D.C., 20036, U.S.A. |
| <i>J. Amer. Leather Chem. Assocn</i> ... | <i>Journal of the American Leather Chemists' Association</i> ... | 228 North Green Street, Easton, Pennsylvania, U.S.A. |
| <i>J. Appl. Chem.</i> ... | <i>Journal of Applied Chemistry</i> ... | Society of Chemical Industry, 14 Belgrave Square, London S.W.1. |
| <i>J. Applied Polymer Sci.</i> ... | <i>Journal of Applied Polymer Science</i> ... | Interscience Publishers Ltd, 88-90 Chancery Lane, London W.C.2 |
| <i>J. Biol. Chem.</i> ... | <i>Journal of Biological Chemistry</i> ... | Mount Royal and Guildford Avenues, Baltimore 2, Maryland, U.S.A. |
| <i>J.C.S.</i> ... | <i>Journal of the Chemical Society</i> ... | Burlington House, London W.1. |
| <i>J. Chem. Phys.</i> ... | <i>Journal of Chemical Physics</i> ... | American Institute of Physics, Lancaster, Pennsylvania, U.S.A. |
| <i>J. Chromatography</i> ... | <i>Journal of Chromatography</i> ... | Elsevier Publishing Co., 110-112 Spuistraat, Amsterdam, Holland. |
| <i>J. Indian Chem. Soc.</i> ... | <i>Journal of the Indian Chemical Society</i> ... | 92 Acharya Prafulla Chandra Road, Calcutta 9, India. |
| <i>J. Oil Col. Chem. Assocn</i> ... | <i>Journal of the Oil and Colour Chemists' Association</i> ... | Wax Chandlers' Hall, Gresham Street, London E.C.2. |
| <i>J. Opt. Soc. Amer.</i> ... | <i>Journal of the Optical Society of America</i> ... | American Institute of Physics, Prince and Lemon Streets, Lancaster, Pennsylvania, U.S.A. |
| <i>J. Org. Chem.</i> ... | <i>Journal of Organic Chemistry</i> ... | American Chemical Society, 20th and Northampton Streets, Easton, Pa., U.S.A. |
| <i>J. Physical Chem.</i> ... | <i>Journal of Physical Chemistry</i> ... | American Chemical Society, 20th and Northampton Streets, Easton Pa., U.S.A. |
| <i>J. Plastics Inst.</i> ... | <i>Transactions and Journal, The Plastics Institute</i> ... | 6 Mandeville Place, London W.1. |
| <i>J. Polymer Sci.</i> ... | <i>Journal of Polymer Science</i> ... | Interscience Publishers Inc., 250 Fifth Avenue, New York 1, N.Y., U.S.A. |
| <i>J. Res. Nat. Bur. Stand.</i> ... | <i>Journal of Research of the National Bureau of Standards</i> ... | Superintendent of Documents, U.S. Government Printing Office, Washington D.C., 20402, U.S.A. |
| <i>J. Soc. Fiber Sci. Technol. Japan</i> ... | <i>Journal of the Society of Fiber Science and Technology, Japan (Sen-i Gakkaishi)</i> ... | Sen-i Gakkai, c/o Tokyo Institute of Technology, Ookayama, Meguro-ku, Tokyo, Japan. |
| <i>J. Soc. Leather Trades Chem.</i> ... | <i>Journal of the Society of Leather Trades' Chemists</i> ... | 52 Crouch Hall Lane, Redbourn, Herts. |
| <i>J. Textile Inst.</i> ... | <i>Journal of the Textile Institute</i> ... | 10 Blackfriars Street, Manchester 3 |

List of Periodicals Abstracted—continued

| ABBREVIATED TITLE | JOURNAL | ADDRESS OF PUBLISHER |
|--|---|---|
| <i>Khim. Volok.</i> | <i>Khimicheskie Volokna</i> | State Committee of Chemical and Oil Industry, Moscow, Krivokolenniy pereulok d.12, U.S.S.R. |
| <i>Kolloid. zhur.</i> | <i>Kolloidný zhurnal (Colloid Journal of the U.S.S.R.)</i> | Academy of Sciences of the U.S.S.R., Moscow, Shubinskii pereulok 10, U.S.S.R. |
| <i>Kolor. Ertesito</i> | <i>Kolorisztikai Értesítő</i> | Központi Kolorisztikai Kutató Laboratórium, Budapest 62, Postafiók 182 |
| <i>Makromol. Chem.</i> | <i>Die Makromolekulare Chemie</i> | Dr Alfred Hütting Verlag, G.m.b.H., Wilckenstr. 3, Heidelberg, Germany. |
| <i>Melliand Textilber.</i> | <i>Melliand Textilberichte</i> | Verlag Melliand Textilberichte KG, 69 Heidelberg, Rohrbacher Str. 76, Germany. |
| <i>Mh. Chem.</i> | <i>Monatshefte für Chemie und verwandte Teile anderer Wissenschaften</i> | Springer-Verlag, Wien I, Mölkerbastei 5, Austria. |
| <i>Nature</i> | <i>Nature</i> | Macmillan & Co. Ltd, St. Martin's Street, London W.C.2. |
| <i>Off. Dig. Fed. Soc. Paint Technol.</i> | <i>Official Digest, Journal of Paint Technology and Engineering</i> | 121 South Broad Street, Philadelphia 7, Pa. 19107, U.S.A. |
| <i>Paint Manuf.</i> | <i>Paint Manufacture</i> | Grampian Press Ltd, The Tower, 229/243, Shepherds Bush Road, Hammersmith, London W.6. |
| <i>Paint, Oil & Col. J.</i> | <i>Paint, Oil and Colour Journal</i> | Morris Ashby Ltd, 10 Philpot Lane, London E.C.3. |
| <i>Paint Tech.</i> | <i>Paint Technology</i> | Sawell Publications Ltd, 4 Ludgate Circus, London E.C.4. |
| <i>Pakistan J. Scientific and Industrial Res.</i> | <i>Pakistan Journal of Scientific and Industrial Research</i> | 39 Garden Road, Karachi 3, Pakistan. |
| <i>Polymer Engng Sci. (formerly SPE Trans.)</i> | <i>Polymer Engineering and Science</i> | Society of Plastics Engineers Inc., 65 Prospect Street, Stamford, Connecticut 06902, U.S.A. |
| <i>Polish Tech. Abs.</i> | <i>Polish Technical Abstracts</i> | Warsaw, Aleje Niepodleglosci 188, Poland. |
| <i>Proc. Chem. Soc.</i> | <i>Proceedings of the Chemical Society</i> | Burlington House, London W.1. |
| <i>Proc. I.R.I.</i> | <i>Transactions and Proceedings Institution of the Rubber Industry</i> | 4 Kensington Palace Gardens, London W.8. |
| <i>Proc. Roy. Soc.</i> | <i>Proceedings of the Royal Society</i> | Burlington House, London W.1. |
| <i>Rec. Trav. chim.</i> | <i>Recueil des Travaux chimiques des Pays-Bas</i> | Burnierstraat 1, 's-Gravenhage, Holland. |
| <i>Rept. Govt. Chem. Ind. Research Inst. Tokyo</i> | <i>Reports of the Government Chemical Industrial Research Institute, Tokyo</i> | 1-chome, Hon-machi, Shibuya-ku, Tokyo, Japan. |
| <i>Rev. Roumaine Chim.</i> | <i>Revue Roumaine de Chimie</i> | Academia Republicii Populară Române, Str. Dumbrăva Rosie 23, Bucharest 9, Romania. |
| <i>Skinner's Rec.</i> | <i>Skinner's Record of the Man-made Fibres Industry</i> | St. James House, 44 Brazenose Street, Manchester 2. |
| <i>Stain Tech.</i> | <i>Stain Technology</i> | Williams & Wilkins Co., Baltimore 2, Maryland, U.S.A. |
| <i>Svensk Papperstidning</i> | <i>Svensk Papperstidning</i> | Villagatan 1, Stockholm O, Sweden. |
| <i>S.V.F. Fachorgan</i> | <i>S.V.F. Fachorgan für Textilveredlung</i> | 4001 Basle, Postfach 201, Switzerland. |
| <i>Talanta</i> | <i>Talanta</i> | Pergamon Press, Headington Hill Hall, Oxford. |
| <i>Tappi</i> | <i>Tappi</i> | Technical Association of Pulp and Paper Industry, 360 Lexington Avenue, New York, N.Y. 10017, U.S.A. |
| <i>Teintex</i> | <i>Teintex, incorporating Revue Générale des Matières Colorantes</i> | 60 rue Richelieu, Paris (2 ^e), France. |
| <i>Tincture et Apprêts</i> | <i>Tincture et Apprêts</i> | Société d'Éditions Techniques de la Manutention Textile, 12 Rue d'Anjou, Paris (8 ^e), France. |
| <i>Tekhnol. tekstil. Prom.</i> | <i>Izvestiya výššíkh uchebných zavedení, Tekhnologiya tekstil'noi promyšlennosti (Technology of the Textile Industry of the U.S.S.R.)</i> | Ivanova, ulitsa Fridrikha Engel'a 21, U.S.S.R. |
| <i>Tekstil. prom.</i> | <i>Tekstil'naya promyšlennost' (Textile Industry of the U.S.S.R.)</i> | Gziegpprom, Moscow, Tsentr, ulitsa Kirova 39, 6-I etazh Komnata 620, U.S.S.R. |
| <i>Tetrahedron</i> | <i>Tetrahedron</i> | Pergamon Press, Headington Hill Hall, Oxford. |
| <i>Tetrahedron Letters</i> | <i>Tetrahedron Letters</i> | Uitg. C. Misset N.V., Doetinchem, Holland. |
| <i>Tex</i> | <i>De Tex</i> | V. D. Limaye, Indian Printing Works, 9 Bakehouse Lane, Fort, Bombay, India. |
| <i>Textile Digest</i> | <i>Textile Digest</i> | 10 Blackfriars Street, Manchester 3. |
| <i>Text. Inst. & Ind.</i> | <i>The Textile Institute and Industry</i> | 31 King Street West, Manchester 3. |
| <i>Text. Manuf.</i> | <i>Textile Manufacturer</i> | Harlequin Press Ltd, Old Colony House, South King Street, Manchester 2. |
| <i>Text. Rec.</i> | <i>Textile Recorder</i> | Prince and Lemon Streets, Lancaster, Pennsylvania, U.S.A. |
| <i>Text. Research J.</i> | <i>Textile Research Journal</i> | Konradin-Verlag Robert Kohlhammer G.m.b.H., Stuttgart 1, Postfach 625, Germany. |
| <i>Textil Praxis</i> | <i>Textil Praxis</i> | Verlag Zolliker & Co., St. Gallen, Switzerland. |
| <i>Textil-Rund...</i> | <i>Textil-Rundschau</i> | 142 Clarence Street, Sydney, N.S.W., Australia. |
| <i>Textile J. of Australia</i> | <i>Textile Journal of Australia</i> | Via Negrioli 51, Milan, Italy. |
| <i>Tinctoria</i> | <i>Tinctoria</i> | Aberdeen University Press Ltd, 6 Upper Kirkgate, Aberdeen, Scotland. |
| <i>Trans. Faraday Soc.</i> | <i>Transactions of the Faraday Society</i> | 4 Kensington Palace Gardens, London W.8. |
| <i>Trans. I.R.I.</i> | <i>Transactions and Proceedings Institution of the Rubber Industry</i> | 178 Goswell Road, London E.C.1 |
| <i>Trans. Inst. Metal Fin.</i> | <i>Transactions of the Institute of Metal Finishing</i> | 6 Mandeville Place, London W.1. |
| <i>Trans. Plastics Inst.</i> | <i>Transactions and Journal The Plastics Institute</i> | Kiev, 30 ulitsa Leontovicha 9a, U.S.S.R. |
| <i>Ukrain. khim. zhur.</i> | <i>Ukrainskii khimicheskii zhurnal (Ukrainian Chemical Journal)</i> | Academy of Sciences of the U.S.S.R., Moscow, Kuznetskii Most, d.9/10, U.S.S.R. |
| <i>Vysokomol. Soed.</i> | <i>Vysokomolekularnye Soedineniya</i> | International Wool Secretariat, Dorland House, 18/20 Regent Street London S.W.1. |
| <i>Wool Sci. Rev.</i> | <i>Wool Science Review</i> | Lódz, Gdanska 155, Poland. |
| <i>Zesz. Nauk. Politech. Lódz</i> | <i>Zeszyty Naukowe Politechniki Lódzkiej</i> | Academy of Sciences of the U.S.S.R., Leningrad B-164, Mendelevskaya liniya, U.S.S.R. |
| <i>Zhur. obshch. khim.</i> | <i>Zhurnal obshchey khimii (Journal of General Chemistry of the U.S.S.R.)</i> | Academy of Sciences of the U.S.S.R., Leningrad B-164, Mendelevskaya liniya, U.S.S.R. |
| <i>Zhur. priklad. khim.</i> | <i>Zhurnal prikladnoi khimii (Journal of Applied Chemistry of the U.S.S.R.)</i> | |

ABBREVIATIONS AND SYMBOLS used in *The Journal of the Society of Dyers and Colourists*

No distinction is made in abbreviations between singular and plural

In special cases abbreviations and symbols other than those in the list may be used, but as far as possible they will be as given either in standard English dictionaries or in *British Standard 1991:Part 1:1954*

| | | | | | |
|---|-----------------------------|---|-----------------|--|----------------------------|
| absolute... | ... abs. | equivalent... | ... equiv. | para... | ... <i>p-</i> |
| acetyl ... | ... Ac | ethyl ... | ... Et | parts per million | ... p.p.m. |
| alkyl radical (in chemical formula) | ... Alk | Fahrenheit ... | ... F | Patent ... | ... P |
| alternating current ... | ... a.c. | foot ... | ... ft | phenyl ... | ... Ph |
| ampère ... | ... A | freezing point ... | ... f.p. | poise ... | ... P |
| Angström unit ... | ... Å | gallon (Imperial) ... | ... gal | potential difference ... | ... p.d. |
| anhydrous ... | ... anhyd. | gallon (U.S.A.) ... | ... gal(U.S.A.) | pound ... | ... lb |
| approximate, -ly ... | ... approx., ca | German Patent ... | ... GP | precipitate ... | ... ppt. |
| aqueous ... | ... aq. | gram ... | ... g | precipitated ... | ... ppptd |
| aryl radical (in chemical formula) | ... Ar | gram-molecule ... | ... mole | precipitation ... | ... pptn |
| asymmetric (applied to organic compounds) ... | ... as- | greater than ... | ... > | proportional to ... | ... \propto |
| atmosphere (pressure unit) ... | ... atm. | halogen (in chemical formula) ... | ... Hal | propyl (normal) ... | ... Prn |
| atomic ... | ... at. | horse power ... | ... h.p. | propyl (iso) ... | ... Pri |
| atomic weight ... | ... at. wt | hour ... | ... h | qualitative(ly) ... | ... qual. |
| Baumé ... | ... Bé | hydrogen ion concentration (negative logarithm) ... | ... pH | quantitative(ly) ... | ... quant. |
| benzoyl ... | ... Bz | inch ... | ... in. | racemic (organic chemistry) ... | ... <i>r-</i> |
| boiling point ... | ... b.p. | infrared ... | ... i.r. | recrystallised ... | ... recryst. |
| British Patent ... | ... BP | inorganic ... | ... inorg. | refractive index ... | ... <i>n</i> |
| British thermal unit ... | ... B.t.u. | insoluble ... | ... insol. | relative humidity ... | ... r.h. |
| butyl (normal) ... | ... Bu ⁿ | kilocalorie ... | ... kcal | revolutions per minute ... | ... rev/min |
| butyl (iso) ... | ... Bu ⁱ | kilogram ... | ... kg | röntgen ... | ... <i>r</i> |
| butyl (tertiary) ... | ... Bu ^t | laevorotatory ... | ... laevo, (-)- | saturate(d) ... | ... sat.* |
| calculated ... | ... calc. | less than ... | ... < | second ... | ... s |
| calorie ... | ... cal | litre ... | ... l. | secondary (organic compound) ... | ... <i>s-</i> |
| Celsius (centigrade) ... | ... C | logarithm (decadic) ... | ... log | soluble ... | ... sol. |
| centi ... | ... c | logarithm (natural) ... | ... ln | solution ... | ... soln |
| compound ... | ... cpd | maximum ... | ... max. | specific ... | ... sp. |
| concentrated ... | ... conc. | melting point ... | ... m.p. | specific gravity ... | ... sp. gr. |
| concentration ... | ... concn | meta- ... | ... <i>m-</i> | square in. (etc.) ... | ... in ² (etc.) |
| configuration (carbohydrates and amino acids) ... | ... D-, L- | methyl ... | ... Me | stokes ... | ... S |
| constant ... | ... const. | metre ... | ... m | substituted ... | ... subst.* |
| containing more than <i>n</i> carbon atoms ... | ... containing > <i>n</i> C | microgram ... | ... μ g | substitution on nitrogen, oxygen, etc. ... | ... <i>N-, O-, etc.</i> |
| corrected ... | ... corr. | micron ... | ... μ | symmetrical (organic compound) ... | ... <i>s-</i> |
| crystal, -line, -ised (adjective) ... | ... cryst. | milli- ... | ... m | temperature ... | ... temp. |
| cubic centimetre (etc.) ... | ... cm ³ (etc.) | millilitre ... | ... ml | tertiary-(organic compound) ... | ... <i>t-</i> |
| curie ... | ... c | minimum ... | ... min. | turns per inch ... | ... turns/in. |
| decomposition ... | ... decomp. | minute ... | ... min | Twaddell ... | ... Tw |
| degree ... | ... deg | molar (concentration) ... | ... M | United States Patent ... | ... USP |
| degree of polymerisation ... | ... DP | molecular, -e ... | ... mol. | ultraviolet ... | ... u.v. |
| degree of substitution ... | ... DS | molecular weight ... | ... mol. wt | unsaturated ... | ... unsat.* |
| density ... | ... ρ | normal (concentration) ... | ... N | unsubstituted ... | ... unsubst.* |
| derivative ... | ... deriv. | normal (organic compound) ... | ... n- | viscosity ... | ... η |
| dextrorotatory ... | ... dextro. (+)- | not greater than ... | ... > | volt ... | ... V |
| dilute ... | ... dil. | not less than ... | ... < | volume ... | ... vol. |
| direct current ... | ... d.c. | organic ... | ... org. | watt ... | ... W |
| distil, -led ... | ... dist. | ortho- ... | ... o- | wavelength ... | ... λ |
| electromotive force ... | ... e.m.f. | ounce ... | ... oz | weight ... | ... wt |
| equation ... | ... eqn. | | | yard ... | ... yd |
| equimolecular ... | ... equimol. | | | | |

* Only in describing general formulae in the Abstracts Section

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